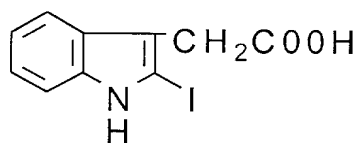
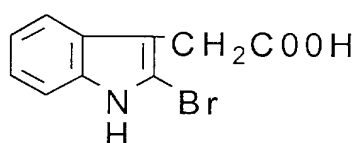


FIG. 1

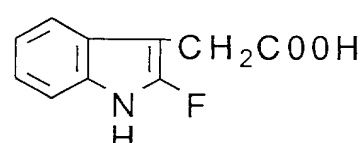
Halogenated IAA Analogues



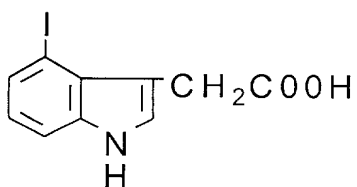
2-iodo-IAA



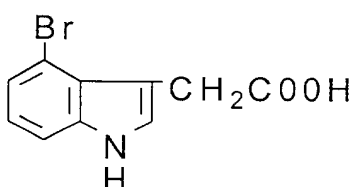
2-bromo-IAA



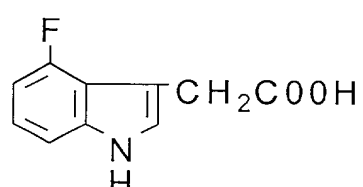
2-fluoro-IAA



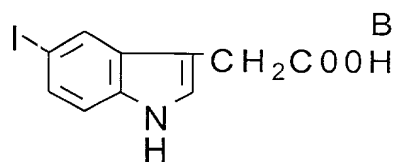
4-iodo-IAA



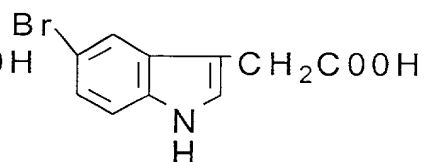
4-bromo-IAA



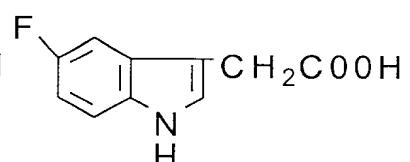
4-fluoro-IAA



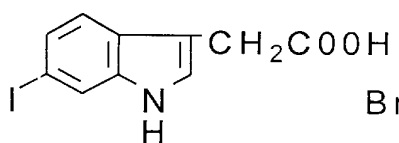
5-iodo-IAA



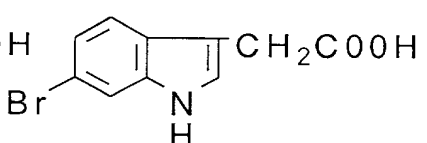
5-bromo-IAA



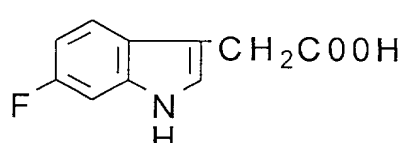
5-fluoro-IAA



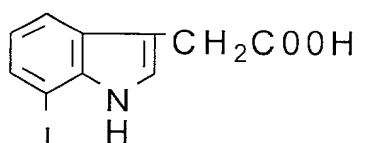
6-iodo-IAA



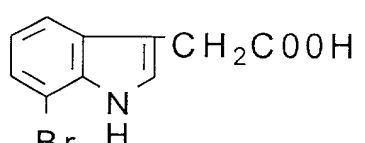
6-bromo-IAA



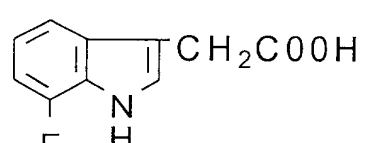
6-fluoro-IAA



7-iodo-IAA



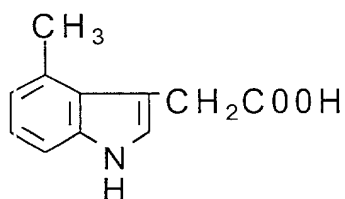
7-bromo-IAA



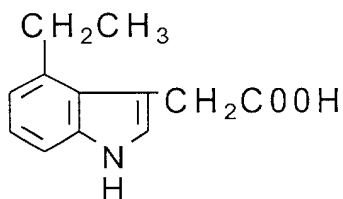
7-fluoro-IAA

FIG. 2

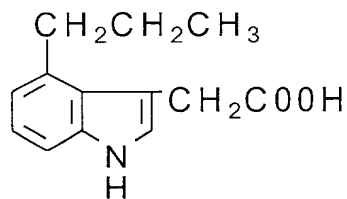
4-Alkyl-IAA Auxinic Analogues



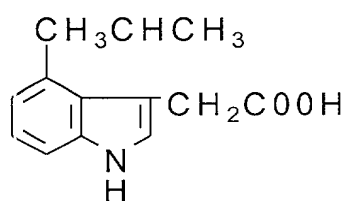
4-methyl-IAA



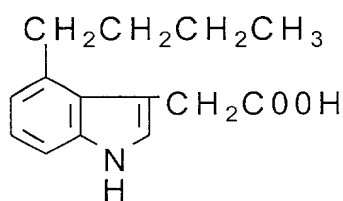
4-ethyl-IAA



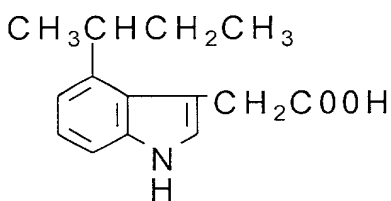
4-propyl-IAA



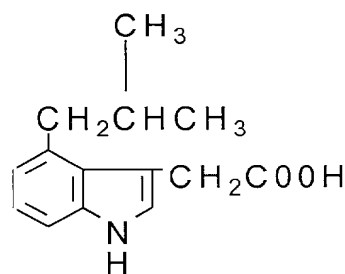
4-isopropyl-IAA



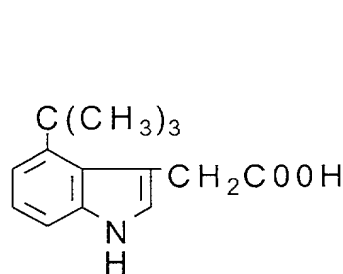
4-butyl-IAA



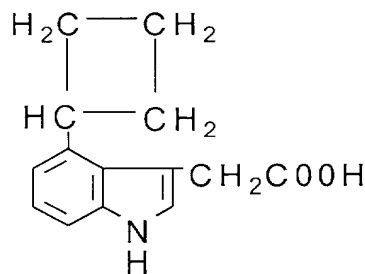
4-sec-butyl-IAA



4-isobutyl-IAA



4-tert-butyl-IAA

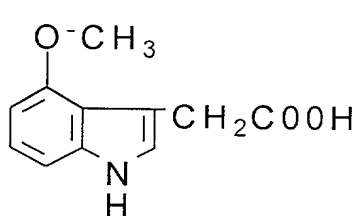


4-cyclobutyl-IAA

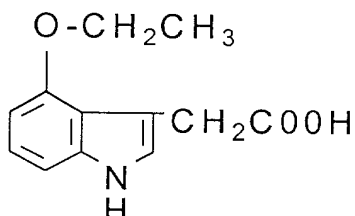
The 4-alkyl-IAA compounds represented herein have the alkyl substituent group at position 4. The present invention also contemplates alkyl-IAA compounds having the same alkyl substituent groups at position 2, 5, 6 or 7. The instant invention provides alkyl substituents with 1-10 carbon atoms.

FIG. 3

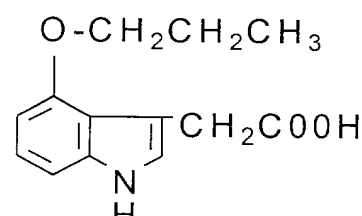
4-Alkoxy-IAA Auxinic Analogues



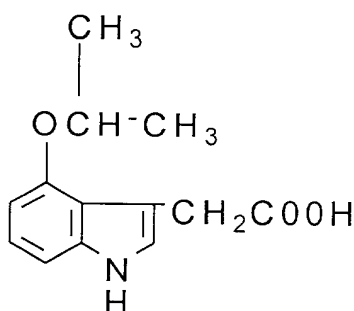
4-methoxy-IAA



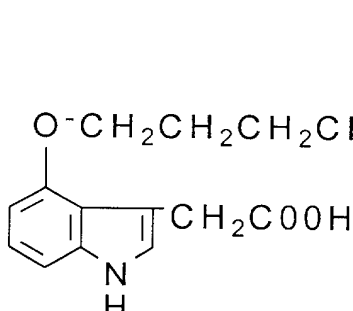
4-ethoxy-IAA



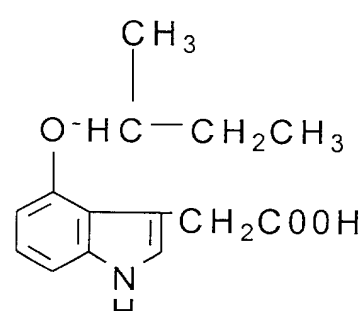
4-propoxy-IAA



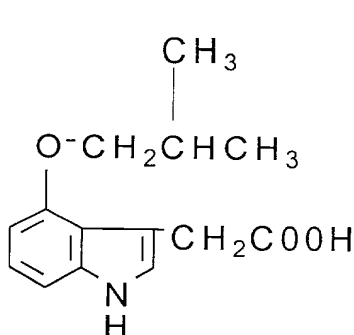
4-isopropoxy-IAA



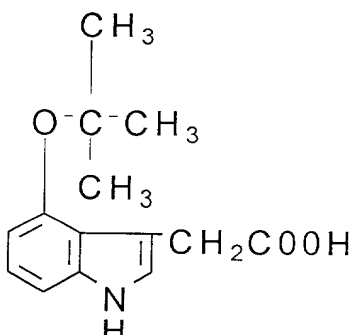
4-butoxy-IAA



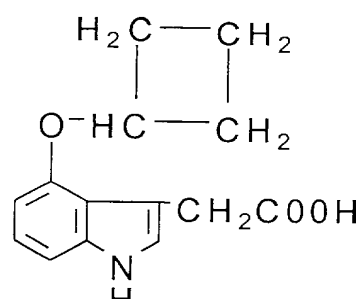
4-sec-butoxy-IAA



4-isobutoxy-IAA



4-tert-butoxy-IAA

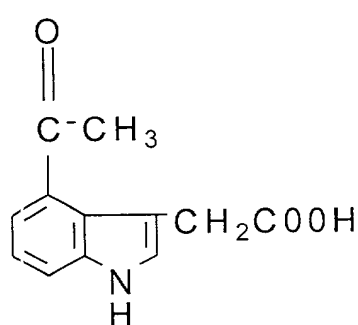


4-cyclobutoxy-IAA

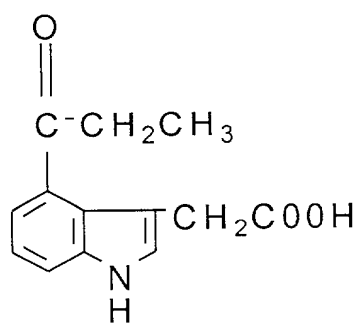
The 4-alkoxy-IAA compounds represented herein have the alkyl substituent group at position 4. the present invention also contemplates alkoxy-IAA compounds having the same alkoxy substituent groups at position 2, 5, 6 or 7. The instant invention provides alkoxy substituents with 1-10 carbon atoms.

FIG. 4

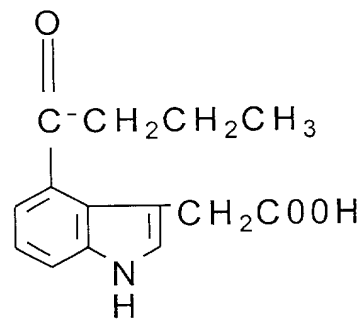
4-Acyl-IAA Auxinic Analogues



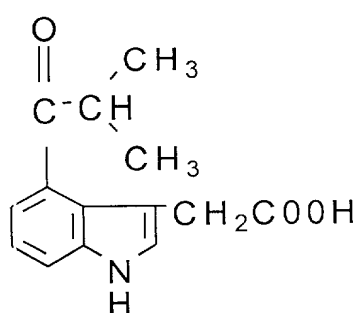
4-acetyl-IAA



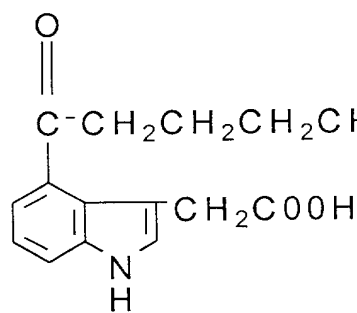
4-propionyl-IAA



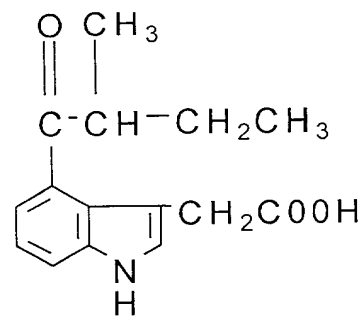
4-butyryl-IAA



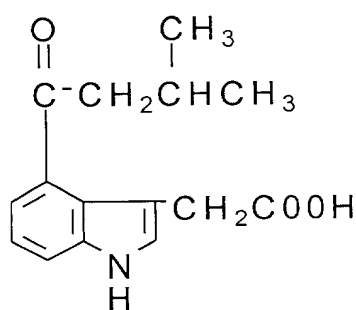
4-isobutyryl-IAA



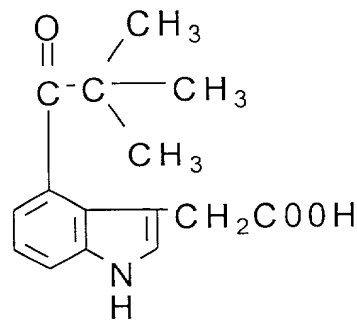
4-valeryl-IAA



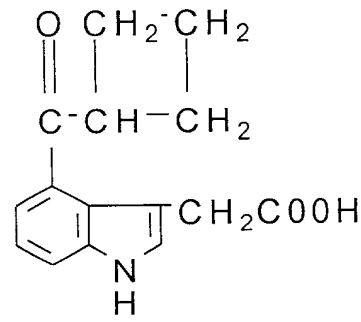
4-sec-valeryl-IAA



4-iso-valeryl-IAA



4-tert-valeryl-IAA

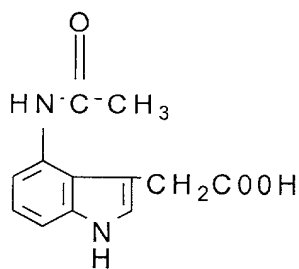


4-cyclovaleryl-IAA

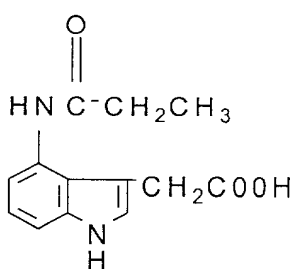
The 4-acyl-IAA compounds represented herein have the acyl substituent group at position 4. The present invention also contemplates acyl-IAA compounds having the same acyl substituent groups at position 2, 5, 6 or 7. The instant invention provides acyl substituents with 1-10 carbon atoms.

FIG. 5

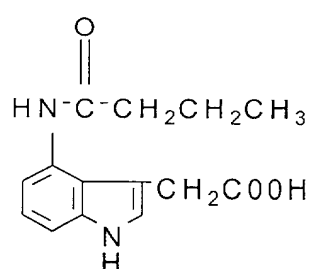
4-Acylamido-IAA Auxinic Analogues



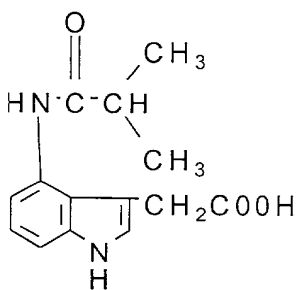
4-acetylamido-IAA



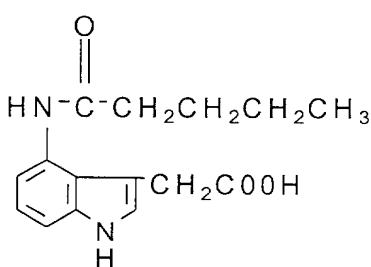
4-propionylamido-IAA



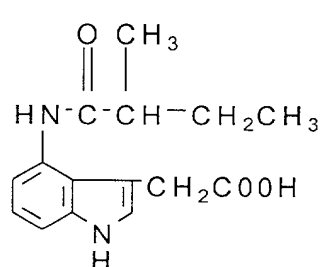
4-butyrylamido-IAA



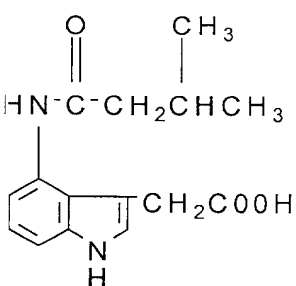
4-isobutyrylamido-IAA



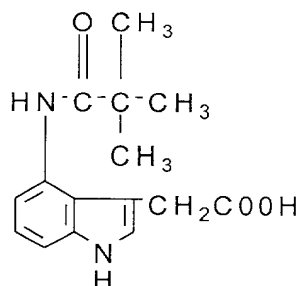
4-valerylamido-IAA



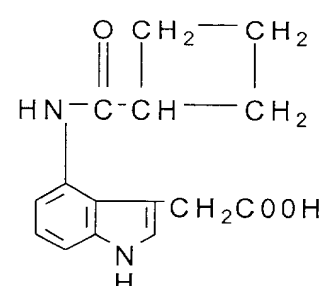
4-sec-valerylamido-IAA



4-isovalerylamido-IAA



4-tert-valerylamido-IAA

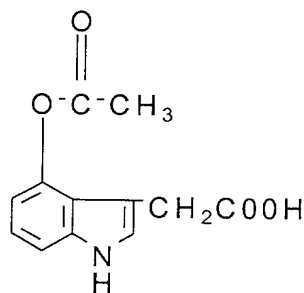


4-cyclovalerylamido-IAA

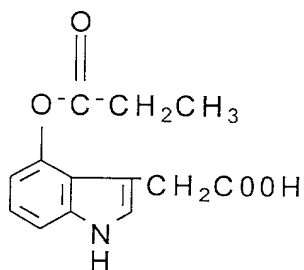
The 4-acylamido-IAA compounds represented herein have the acylamido substituent group at position 4. The present invention also contemplates acylamido-IAA compounds having the same acylamido substituent groups at position 2, 5, 6 or 7. The instant invention provides acylamido substituents with 1-10 carbon atoms.

FIG. 6

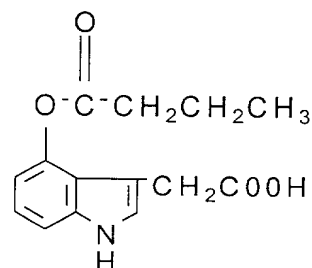
4-Acyloxy-IAA Auxinic Analogues



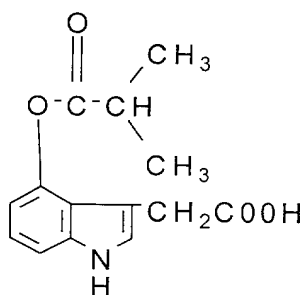
4-acetyloxy-IAA



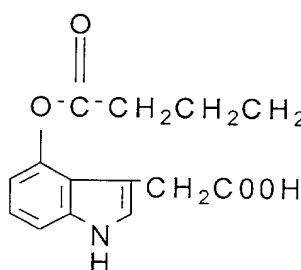
4-propionyloxy-IAA



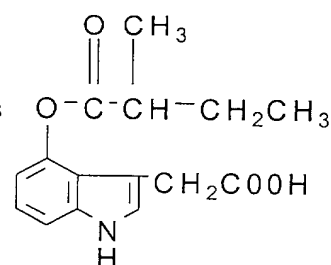
4-butyryloxy-IAA



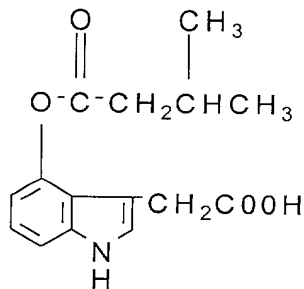
4-isobutyryloxy-IAA



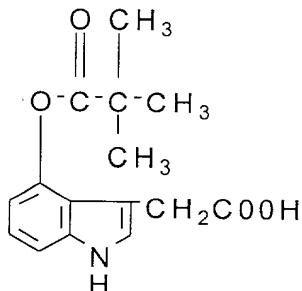
4-valeryloxy-IAA



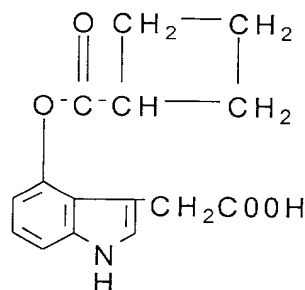
4-sec-valeryloxy-IAA



4-isovaleryloxy-IAA



4-tert-valeryloxy-IAA



4-cyclovaleryloxy-IAA

The 4-acyloxy-IAA compounds represented herein have the acyloxy substituent group at position 4. The present invention also contemplates acyloxy-IAA compounds having the same acyloxy substituent groups at position 2, 5, 6 or 7. The instant invention provides acyloxy substituents with 1-10 carbon atoms.

FIG. 7



FIG. 8

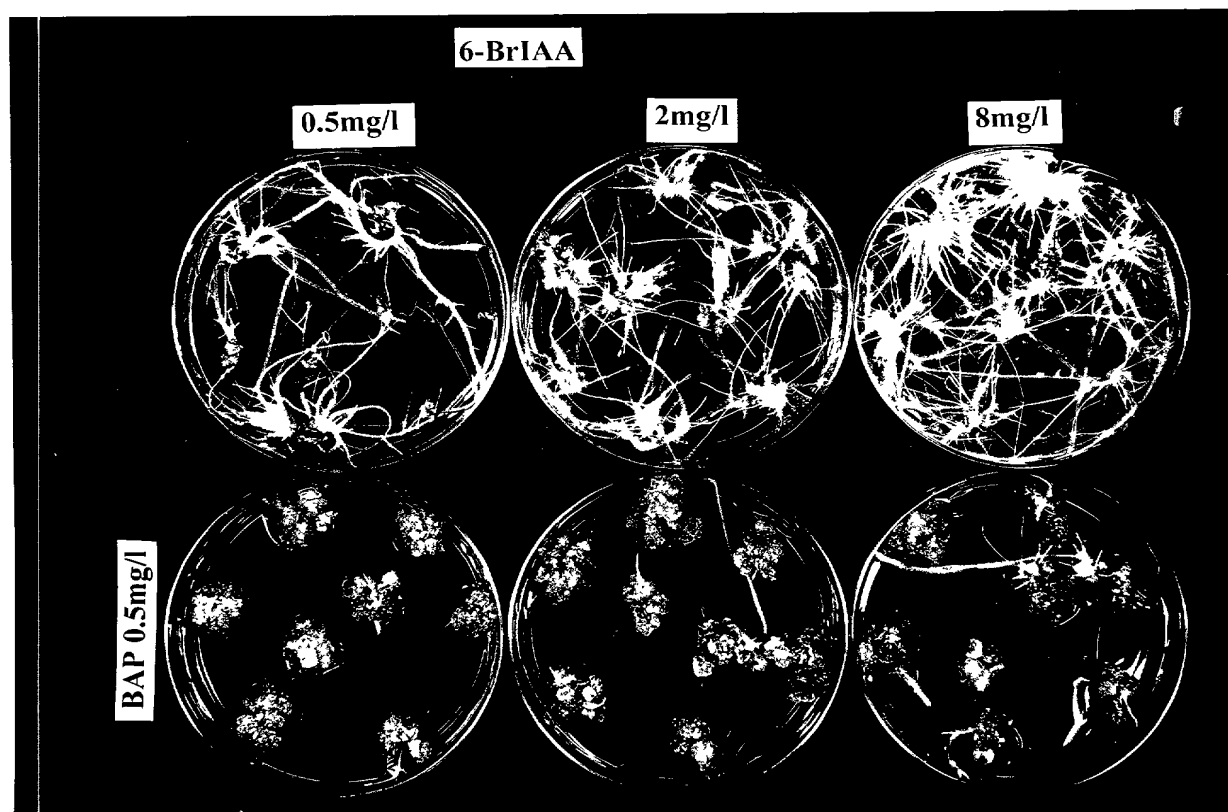


FIG. 9

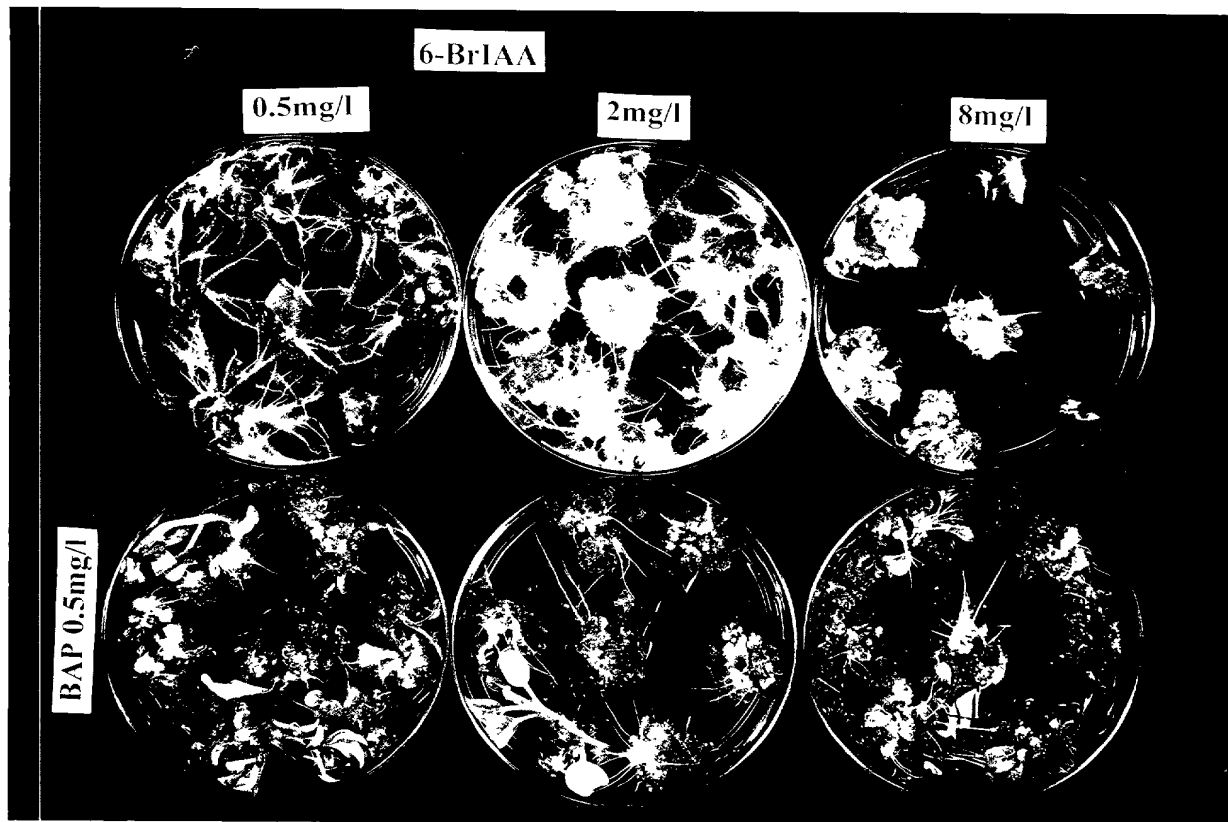


FIG. 10



FIG. 11

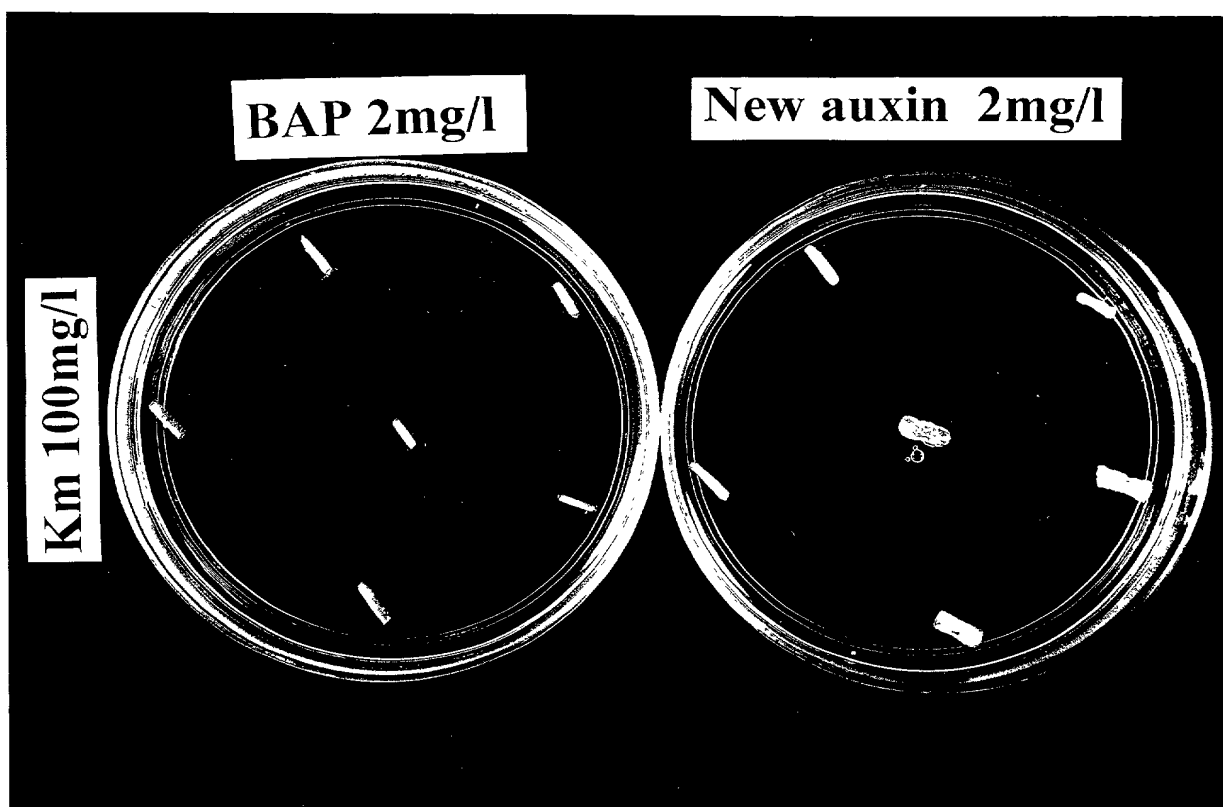


FIG. 12



FIG. 12 (Cont'd)

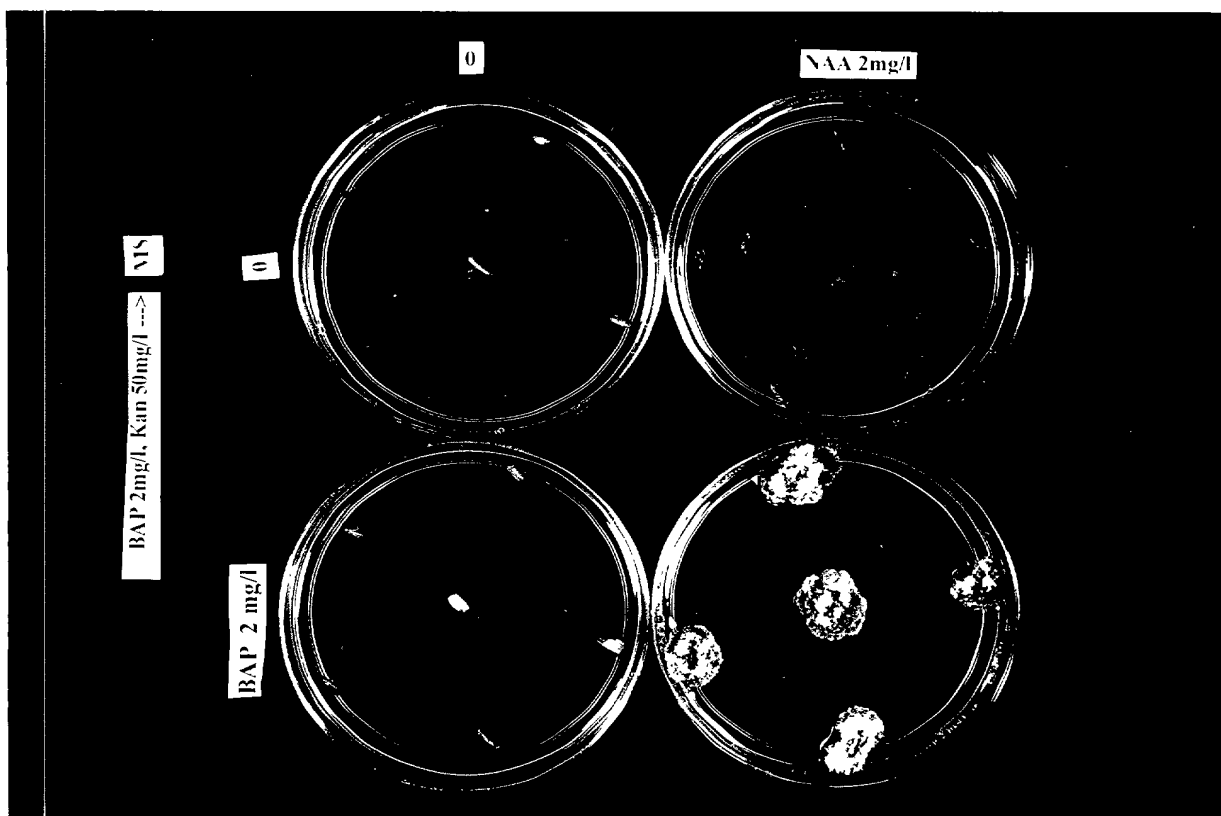
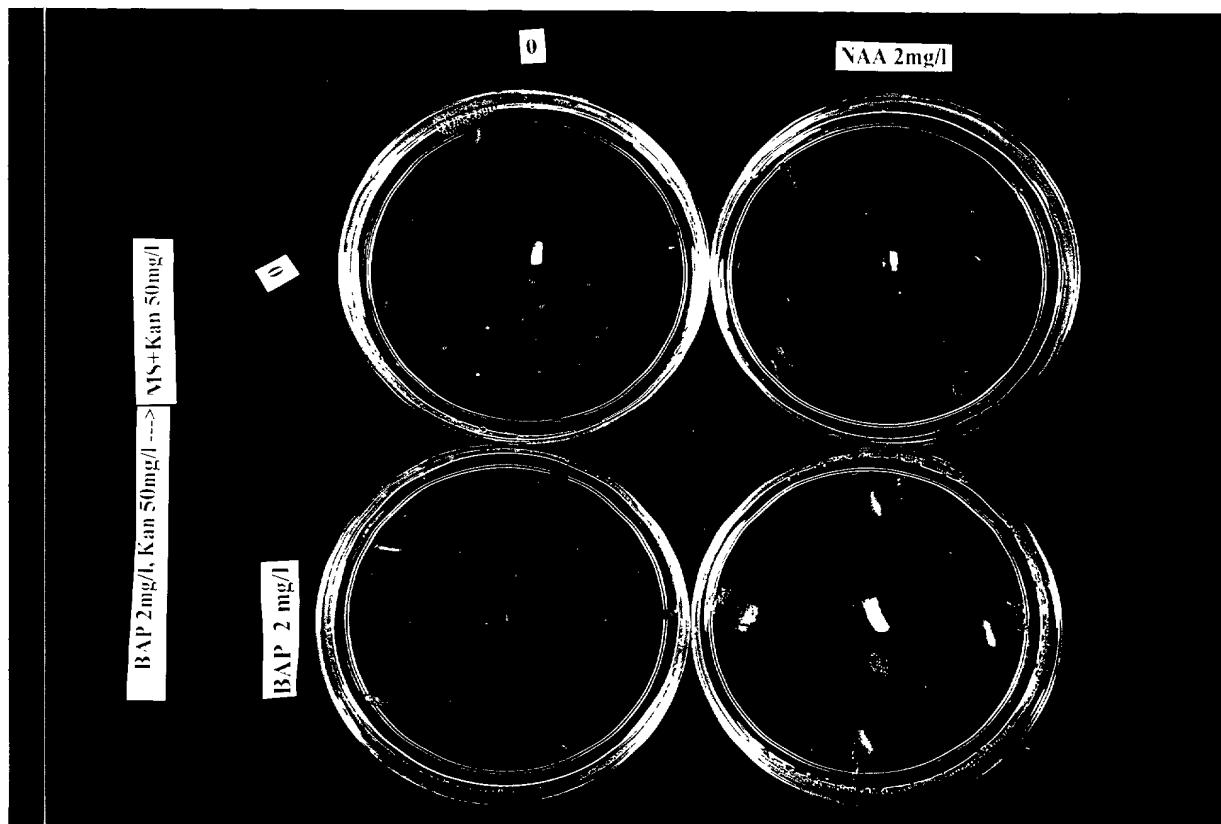


FIG. 13